

Machine Draw 4/25/81
Leigh

ASTROVISION INC. BB ARCADE SERVICE BILL OF MATERIALS

10/5/81

QTY. DESCRIPTION PART NUMBER DESIGNATION QTY. COST

*** TWO HAND CONTROLS ***

1	Barrel, .0005 diam	0010-00245-0000	2	.02
2	Pole Pin 6"x9"x1.5 mils	0017-00004-0115	2	.02
3	"E" Pin	0017-00100-0013	4	.02
4	Screw #4x3/8 Phillips Panhead Type B, Steel	0017-00101-0083	12	.01
5	HEX Nut 5/16 X 24	0017-00103-0069	2	.04
6	Flat Nut 1/8	0017-00103-0059	4	.01
7	Plater, compression	0620-00100-002N	2	.03
8	Bracket, Anti Twist	0620-00101-017N	2	.04
9	Actuator, Spring	0620-00104-0260	2	.03
0	Jumper Wire, yellow #22 AWG Prebond 3 3/4" long	0620-00108-0000	2	.01
1	Leaf Springs, back	0620-00159-00XF	2	.07
2	Leaf Springs, front	0620-00160-00XF	2	.07
3	Trigger	0620-00902-0300	2	.13
4	Control Grip, right	0620-00902-0400	2	.36
5	Control Grip, left	0620-00902-0500	2	.36

EM	DESCRIPTION	PART NUMBER	DESIGNATION	QTY	COST
14	Styrofoam, left	0620-00403-0000		1	.87
15	Roll up filler	0620-00404-0000		1	.27
16	Heat sink, compound	0042-00051-0060		1	.02
17	Outer carton for shipping	0620-00406-0000		1	.90
18	Serial# tas BA-1000	0620-00934-0420		1	.15
19	Filler, power transformer	0620-0411-0000		1	.40
20	Cursor Group applications	FORM-10499-1XXX		1	.09
21	Epoxy-Data Chip/H.S. Data Bond#152	0042-0181-0512		1	.02
22	Wire ties		with antenna & power cord	2	
23	Gold foil for cabinet touch up		with cabinets by Altra		.00
24	Masking tape 3/4" wide, 3' long to seal handle fil.			1	.00
25	Hot Melt glue to close outer carton			1	.00

DESCRIPTION	PART NUMBER	DESIGNATION	QTY	COST
Housing, keyboard /cassette	0620-00916-0100		1	1.30
Ejector bar	0620-00920-0100		1	.27
Reset Button	0620-00921-0100		1	.25
Pins, crimp	0017-00021-0212		4	.02
Power transformer 0850-0113				
Connector, 7Pin	0017-00021-0315		1	.13
Power transformer 22-01-2071				
Power transformer	0620-00911-0000		1	7.00
<i>Bulb box with connector</i>				
Dust cover-smoked For ABA-1000	0620-00915-0000		1	1.62
Logo (black&beige)	0620-00923-0200		1	.68
Poly bag for manual 6"x9"x1.5 mil	0017-0004-0115		1	.02
Overlay, keyboard scribbling	0620-00111-0000		1	1.11
Owners Manual	0620-00303-0000		1	.68
Warranty Card	FORM-00048-1077		1	.04
Poly Bag for cabinet 18"x20" 3 mil	0017-00042-0172	No Charge provided with top cover 1		
Carton, inner top 4 color	0620-00400-0000		1	1.29
Carton, inner bottom	0620-00401-0000		1	1.09
Styrofoam, right	0620-00402-0000		1	.87

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C00

EM	DESCRIPTION	PART NUMBER	DESIGNATION	QTY	COST
2	Screw, Keyboard mts. #6x1/2 slot hex washer head type A Zinc.	0017-00101-0778		4	.01
3	Washer, nylon #6 16FW006032	0017-00104-0088		3	.01
4	Spring clip-bottom shield/line filter	0620-00119-00DE		1	.14
5	Spring clip-bottom shield/modulator	0620-00121-00DE		1	.12
6	Spring clip, top shield/line filter	0620-00141-0000		1	.23
7	RF shield, top	0620-00148-E000		1	.57
8	Insulator, B version	0620-00150-0000		1	.76
9	Standoff 4-40 Brass roll over	0620-00702-0000		11	.05
10	Coax cable 72 ohm 12 ft. RG59AU with RCA plugs	0620-00910-0100		1	2.42 ✓
11	TV adapter switch	0620-00912-0000		1	1.40 ✓
12	Cabinet, top walnut	0620-00913-0100		1	6.85
13	Cabinet, bottom	0620-00914-0100		1	2.14
14	Heat sink bar aluminum 4"x1/2"x1/8"	0620-00161-0000		1	.18
15	Spring, ejector	0010-00247-0000		1	.05
16	Ejector button Assembly	A620-00025-0200		1	.58
17	Overlay, keyboard <i>See Note</i>	0620-00105-00SC		1	.85 ✓ 2.00

DESCRIPTION	PART NUMBER	DESIGNATION	QTY	COST
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Crystal 14.3181 MHZ Special Tolerance	0069-079XX-XX2X	Y1	1	2.54
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Jumper 3/4" #20 Bus Wire		JP2	1	.01
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Jumper 13 1/2" #20 Prebond, Insulated		JP1	1	.03
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* FINAL ASSEMBLY PARTS ***

Bottom RF Shield	0620-00149-00DE		1	1.53
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Heat Sink, Data Chip	0620-00123-0000		1	.14
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Rivet, Large-Tubular C1x4/16, Ni-Plate	0017-00072-0036		2	.01
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RF Modulator UM1291-1	0017-00003-C190		1	11.68
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5% duty tax includ. U Clip, Tinnerman C22323-014-24	0017-00007-0135		3	.03
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Feet, Polyurethane Pad-stickon	0017-00041-0602		4	.11
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Rivet .088x 3/32 Ni-Plate	0017-00072-0081		4	.01
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Screw, PC mt. 6x3/8 Phillips Panhead Type 25 TCS-Zinc	0017-00101-0067		4	.01
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Screw, PCB/shield 4-40 3/16 zinc, m.s.	0017-00101-0340		11	.01
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Lockwasher, #4 Split	0017-00104-0099		10	.00
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Screw, cab. mtd. 8-32x3/8 Phil-R.H. M.S. B.O.	0017-00101-0776		5	.01
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QTY	DESCRIPTION	PART NUMBER	DESIGNATION	QTY	COST
1	64K ROM MK36008P or 2364-0002 SYSTEM II	0066-147BX-XXWX	U2 -	1	12.50
1	IC 74LS174 Hex Latch TTL	0066-243AX-XXCX	U20	1	.58
1	Regulator variable ua78GU1C	0066-250BX-XXBX	VR3	1	1.18
2	IC 74LS00 QUAD NAND TTL	0066-453XX-XXCX	U12	1	.32
3	IC 74LS02 QUAD NOR TTL	0066-463XX-XXBX	U11,15	2	.32
1	IC 74LS04 HEX INV. TTL	0066-473XX-XXHX	U6	1	.32
2	74LS10 TRIPLE NAND TTL	0066-502XX-XXCX	U13,14	2	.32
1	IC 74LS257 QUAD MUX TTL	0066-643AX-XXCX	U8,9	2	.68
1	IC 74LS367 TTL HEX BUS DRIVER	0066-700AX-XXBX	U5	1	.50
2	IC 74LS74 DUAL 'D' FLIP-FLOP	0066-823XX-XXHX	U21,22	2	.44
1	IC 74S74 DUAL 'D' FLIP-FLOP	066-821XX-XXHX	U16	1	.68
1	IC DM81LS95	0066-967AX-XXAX	U23	1	1.26
1	IC DP8304	0066-968AX-XXAX	U10	1	2.18
2	Screw, nylon 6-32x3/8 010632P037	0017-00101-0774		2	.03
2	Nut, nylon 6-32 0400632 HN	0017-00103-0060		2	.03
1	Insulator - Power Regulator	0620-00959-0000		1	.02

ITEM	DESCRIPTION	PART NUMBER	DESIGNATION	QTY	COST
543	Resistor 10K ohm 1/4W	0062-227B3-1XXX	R7,39	2	.01
544	Resistor 11K ohm 1/4W	0062-229B3-1XXX	R10	1	.01
545	Resistor 22K ohm 1/4W	0062-243B3-1XXX	R9	1	.01
546	Resistor 1 megohm 1/4W	0062-323B3-1XXX	R6	1	.01
547	Diode 1N4004 1AMP 400V	0064-030XX-XXCF	D1-D8	8	.07
548	Diode 1N4148 Silicon Signal	0064-048XX-XXFX	D9-28	20	.03
549	Transistor TIP 31 10220 NPN Power Darlington	0065-485XX-XXMX	Q1	1	.44
550	Transistor TIS 137 PNP	0065-500XX-XXMX	Q2	1	.56
551	IC Regulator +12V LM342-P12	0066-023BX-XXAX	VR1	1	.80
552	IC 4Kx1 Dynamic RAM MK4027-4 250 N.S.	0066-228XD-XXBX	U24-31	8	2.62
553	IC Regulator +10V LM342F10	0066-025BX-XXAX	VR2	1	.85
554	IC Regulator -5V LM320MP5 or UA7905CKC	0066-026BX-XXAX	VR4	1	1.05
555	IC Custom ADDRESS 1447	0066-115XX-XXYX	U17	1	9.10
556	IC Custom I/O 1448	0066-117XX-XXYX	U19	1	9.10 ✓
557	IC Custom Data C2860D-1	0066-118XX-XYXX	U18	1	13.60 ✓
558	IC CPU Z80 MK 3880 2 MHZ	0066-124BX-XXWS	U7	1	8.00

EM	DESCRIPTION	PART NUMBER	DESIGNATION	QTY	COST
2	Capacitor 10,000uf 10v Electrolytic	0061-322CX-5EBX	C6	1	1.22
3	Resistor, 24ohm 1/2W	0062-065B3-1XXX	R108	1	.01
7	Resistor, 18ohm 1W	0062-0F180-1XXX	R1	1	.07
3	Resistor, 47ohm 1/4W	0062-086B3-1XXX	R12,13,15,37	4	.01
1	Resistor, 62ohm 1/4W	0062-095B3-1XXX	R14	1	.01
2	Resistor, 100 ohm 1/4W	0062-110B3-1XXX	R38	1	.01
5	Resistor, 150 ohm 1/4W	0062-122B3-1XXX	R18	1	.01
1	Resistor, 150 ohm 1/2w	0062-122B3-1XXX	R3	1	.01
3	Resistor, 240 ohm 1/4W	0062-135B3-1XXX	R2	1	.01
3	Resistor, 330 ohm 1/4W	0062-144B3-1XXX	R11	1	.01
7	Resistor 1K ohm 1/4W	0062-179B3-1XXX	R16,17,32,101-105 R107	9	.01
3	Resistor, 2K ohm 1/4W	0062-193B3-1XXX	R4,5,19-21,40-42	8	.01
7	Resistor 2.2K ohm 1/4W	0062-195B3-1XXX	R8	1	.01
7	Resistor 3.3K ohm 1/4W	0062-203B3-1XXX	R33,35,36	3	.01
	Resistor 6.2K ohm 1/4W	0062-217B3-1XXX	R22-25	4	.01
7	Resistor 8.2K ohm 1/4W	0062-223B3-1XXX	R26-31,34	7	.01

Eq	DESCRIPTION	PART NUMBER	DESIGNATION	QTY	COST
1	Clock ckt shield	0620-00114-0000		1	.33
2	Clock ckt cover	0620-00122-0000		1	.17
3	Connector 3 pin to light pen-custom	3000-16336-0000	J7	1	.36
4	Connector 8 pin to modulator 09-66-1089	3000-16337-0000	J1	1	.25
5	Capacitor-22pf CGB220MDN	0061-025H6-1J5X	C17	1	.06
6	Capacitor 27 pf CGB270JDN	0061-028H2-1J5X	C16	1	.09
7	Capacitor 33 pf CGB330JDN	0061-030H2-1J5X	C18,49,50	3	.09
8	Capacitor 47 pf CGB470MDN	0061-034H6-1J5X	C54	1	.06
9	Capacitor 100pf CGB101JDN	0061-043H2-1J6X	C15	1	.12
0	Capacitor 470pf CGB471JDN	0061-061H6-1J6X	C20-47	28	.12
1	Capacitor .039uf CGE393JDX	0061-117H2-1J6X	C19	1	.34
2	Capacitor .1uf CGC104ZDZ	0061-132HX-1J6X	C2-5,9,11,12,14 C48,51,65-87,89-92 C95-106	49	.11
3	Capacitor 1uf-50v Electrolytic-axial	061-163D4-4ERX	C13	1	.10
4	Capacitor 15uf-25v Electrolytic axial	0061-207D8-4ERX	C7,8,62-64	5	.10
5	Capacitor 100uf 16v Electrolytic axial	0061-233DX-5E2X	C10	1	.13
6	Capacitor 1500uf 25v Electrolytic axial	0061-297EX-5EBX	C1	1	.54

EM	DESCRIPTION	PART NUMBER	DESIGNATION	QTY	COST
3	Choke, 0.1 OHM Custom 10uH	0069-105XX-XXYX	L2,L3	2	.33
4	Choke, 0.3 OHM Custom 10uH	0069-096XX-XXYX	L1,L4	2	.28
5	Line filter Base	0620-00112-0000		1	.19
6	Line filter Top	0620-00113-0000		1	.26

**** MAIN PCB ****

1	Main PC Board	A080-9070-B620		1	30.60
2	Tape, Cooper Conductive	0017-00081-0085		1	.12
3	Cartridge connector SV6B26P-1	0017-00021-0273	J6	1	4.80
4	Handle connector 207456-1 9 Pin	0017-00021-0291	J2-J5	4	.74
5	Retention Bar 207742-1	0017-00042-0169	Part of J2-J5	4	.06
6	Reset Switch SPST N.O. Momentary SW011-M-CE-P-X-01-	0017-00032-0048	S2	1	.31
7	ON/OFF Switch DPDT Slide SL022-SU-S0-D-BL-OK-	0017-00032-0049	S1	1	.33
8	Heat Sink, Large THM 6038-PB	CE-06-022-2000 0068-031XX-XXAX	HS3	1	.25
9	Heat sink, Small THM 6047-PB	0068-032XX-XXAX	HS 1,2	2	.06
10	IC Socket 40 PIN AUG 240AG39D CAM 703-4240-01-04-10	0069-065XX-XXCX	ICS 17-19	3	.40

EM	DESCRIPTION	PART NUMBER	DESIGNATION	QTY	COST
3	Tape, Poly	0017-00081-0088		1	.04
4	Keypad 24 Button 11K8131	0017-00003-0191		1	1.56
5	Jumpers 1/2" #20 Tinned Bus Wire			10	.02
6	Insulator for end of Keypad	0620-00963-0000		1	.03

*** CLOCK PCB ASSEMBLY ***

1	PCB, Clock A069-02	A080-91332-A620		1	1.84
2	Resistor 680 ohm 1/4 W	0062-168B3-1XXX	R43,44	2	.01
3	Transistor 2N4401 NPN	0065-213XX-XXGX	Q3,4	2	.11
4	I.C TTL 7416 Hex inverter open collector	0066-530XX-XXHX	U32	1	.33
5	Insulator	0620-00965-0000		1	.01
6	Dummy Pin Long 8128-17P11	0069-099XX-XXWX		7	.07

*** LINE FILTER ASSEMBLY ***

1	Capacitor, 1000Pf Feedthrough	0061-070L8-1KVD	C201-204	4	.15
2	Capacitor, 1000Pf Feedthrough w/Pins	0061-070L8-1KVE	C205-208	4	.15

QTY	DESCRIPTION	PART NUMBER	DESIGNATION	QTY	COST
2	Housing, centering	0620-00903-0100		2	.08
2	Center Bushing	0620-00904-0100		2	.06
2	Control handle P.C. board	0620-00905-0000		2	.68
2	Actuator button	0620-00906-0000		2	.06
2	Snap Dome Switch Assembly	A620-00006-0000	Assembled onto PCB	2	.54
1	Knob #2	0620-00907-0200		1	.30
2	Cable Assembly, Handle	0620-00925-0000		2	3.50
2	POT 50K LL-T450-6SF	0063-285AX-LHFX		2	1.94
2	Insulator Mylar large	0620-00970-0000		2	.04
2	Insulator, Mylar, small	0620-00971-0000		2	.01
2	Oil, trigger contact Globe M2000			2	.00
2	TY Wraps 4 1/4" 230425N	0017-00042-0105		2	.01

* KEYPAD ASSEMBLY ***

P.C. Board Keypad extender	A069-00003-0000	1	.60
Tape, aluminum MF-210-50P	0017-00081-0081	1	.01